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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/635,712	08/07/2003	Hiraku Murayama	1011350-000318	1927
	7590 08/06/200 INGERSOLL & ROOI	EXAMINER		
POST OFFICE	BOX 1404	FOREMAN, JONATHAN M		
ALEXANDRIA, VA 22313-1404			ART UNIT	PAPER NUMBER
			3736	
			NOTIFICATION DATE	DELIVERY MODE
			08/06/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)	
	10/635,712	MURAYAMA ET AL.	
Office Action Summary	Examiner	Art Unit	
	JONATHAN ML FOREMAN	3736	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on <u>02 M</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matters, pro		
Disposition of Claims			
4) Claim(s) 1,3,5-7 and 31-43 is/are pending in t 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1,3,7 and 31-43 is/are rejected. 7) Claim(s) 5 and 6 is/are objected to. 8) Claim(s) are subject to restriction and/o	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) acceptable and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct the option of the correct state of the properties of the specific state	cepted or b) objected to by the lead rawing(s) be held in abeyance. Section is required if the drawing(s) is objection	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority document 2. ☐ Certified copies of the priority document 3. ☐ Copies of the certified copies of the priority document application from the International Bureat* * See the attached detailed Office action for a list	nts have been received. Its have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate	

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DETAILED ACTION

1. The following Office Action contains new grounds of rejection. Accordingly, the following action has been made Non-Final.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 3 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,865,768 to Orr in view of JP11-151578A to Sakata.

In regard to claims 1, 3 and 7, Orr discloses a guide wire (Figure 1) including a first wire (30) disposed on the distal side of the guide wire; a second wire (25) disposed on the proximal side from the first wire, the second wire having rigidity higher than that of the first wire (Col. 2, lines 44 – 64); wherein the first wire and the second wire are joined to each other by welding (Col. 2, line 54); a cover layer is disposed over the welded portion (Col. 3, lines 8 – 9); the first wire and the second wire are not helical coils; material forming at least one of the proximal end of the first wire and the distal end of the second wire constitutes at least a part of the weld; the second wire has a first portion provided in the vicinity of the distal end of the second wire and a second portion provided on the proximal side from the first portion; and the first portion has rigidity lower than that of the second portion as a result of a taper (Figure 1). Orr discloses a spiral coil (15) covering at least a distal end portion of the first wire. The Examiner considers the location of the weld to be on a thinned portion of the guide wire. Although Orr discloses a welded portion, Orr fails to disclose the

welded portion formed by the welding having a projection projecting in the outer peripheral direction; the projection extending on both axial sides of the welded portion. However, Sakita teaches a welded portion between two wires having a projection projecting in the outer peripheral direction; the projection extending on both axial sides of the welded portion (Figure 1). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the welded portion disclosed by Orr to include a projection as disclosed by Sakita to improve the mechanical properties of the wires at the welded portion [0010].

4. Claims 31 – 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,980,471 to Jafari in view of JP11-151578A to Sakata.

In regard to claims 31 - 43, Jafari discloses a guide wire (Figure 1) having a first wire (12) being formed of a pseudo-elastic alloy (Col. 6, lines 62 – 65) and disposed on the distal side of the guide wire; a second wire (11) being formed of a material having an elasticity modulus greater than the modulus of the first wire and disposed on the proximal side from the first wire (Col. 8, lines 38 – 46); a spiral coil (22) covering at least a distal end portion of the first wire; wherein the first wire and the second wire are joined to each other at a portion (Figure 3) and a cover layer (Col. 6, lines 36 – 42) is disposed over the portion and directly contacts the outer peripheral surface of the joined portion. The coil does not cover the joined portion (Figure 1). The proximal most end of the coil is positioned on a distal side of the joined portion (Figure 1). However, Jafari fails to disclose the joined portion including a welded portion forming a projection that projects in an outer peripheral direction, the projection extending on both axial sides of the welded portion; the welded portion at which the first and second wires are welded to each other being located at the maximum outer-diameter portion of the projection; the material forming at least one of the proximal end of the first wire and the distal end of the second wire constituting at least a part of the projection. However,

Sakita teaches joining two wires with a welded portion having a projection projecting in the outer peripheral direction; the projection extending on both axial sides of the welded portion; the welded portion at which the first and second wires are welded to each other being located at the maximum outer-diameter portion of the projection (Figure 1). The claims would have been obvious because the substitution of one known element for another would have yielded predictable results to one of ordinary skill in the art at the time of the invention. Because both Jafari and Sakita teach mechanisms for joining two wires together it would have been obvious to one skilled in the art at the time of the invention to substitute one mode of connection for the other to achieve the predictable results of firmly joining together the two wires.

Allowable Subject Matter

5. Claims 5 and 6, are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

6. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JONATHAN ML FOREMAN whose telephone number is (571)272-4724. The examiner can normally be reached on Monday - Friday 8:00 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Max Hindenburg can be reached on (571)272-4726. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. M. F./ Examiner, Art Unit 3736

/Max Hindenburg/ Supervisory Patent Examiner, Art Unit 3736